AUTHORIZATION

The Commissioner is hereby authorized to charge any additional fees which may be required

for the timely consideration of this amendment under 37 C.F.R. §§ 1.16 and 1.17, or credit any

overpayment to Deposit Account No. 13-4500, Order No. 2455-4376US2.

Respectfully submitted,
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Dated: May 11, 2001

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APPENDIX 1

MARKED-UP REPLACEMENT PARAGRAPHS IN THE SPECIFICATION

This appendix shows the changes made to each paragraph replaced by this Amendment relative to the previous version of the paragraph. All additions are shown underlined (e.g., the) and all deletions are shown in brackets (e.g., [the]).

REPLACE the paragraph beginning on page 14, lines 3 with the following:

What is needed is a wireless communication system that includes an adaptive array in the receiver, the transmitter, or both. By taking advantage of the benefits of an adaptive array, [the] a wireless communication system [of the present invention] will improve the performance in the channel selected. [Since the] With the prior art, channel selection is based on the interference level of each channel after adaptive array combining, and since adaptive arrays suppress interference, the [present invention] wireless communication system with adaptive arrays using the prior art optimizes the performance of a given link by selecting the channel with the lowest interference. However, [An] an adaptive array can substantially suppress interferers, but only when the number of interferers is less than the number of antennas. Thus, with the adaptive array the channel selection process of the [present invention] prior art can place interferers close together. If this results in too many interferers on another link, the performance of that link may be seriously degraded. As a result, the above channel selection process can result in overall system performance that is worse than without an adaptive array.

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